

Technical data sheet · LÜTZE SUPERFLEX® PLUS M (C) PUR SERVO 0.6/1 kV High Flexing Motor Cable for Siemens and other systems For highest requirements



PUR servo cables · C-track compatible · shielded

| | | |
|-----------------------|----------|----------------------------|
| Identification | Type | SU+M(C)P SE(4G16)UL 1KV OR |
| | Part-No. | 111465 |
| SIEMENS designation* | 1BB61 | |

Use/Application/Characteristics

| | |
|-----------------|---|
| Application | <ul style="list-style-type: none"> • Connection cable motor or motor/brake especially for frequency converters and SERVO drives in machine and plant construction, transport and conveyor technology • Due to optimized cable construction optimally suited for continuous flexing applications in C-tracks • Very good resistance against aggressive coolants and lubricants • Especially for industrial environments in mechanical and system engineering |
| Characteristics | <ul style="list-style-type: none"> • High active and passive interference resistance (EMC) • Braided shield optimised for continuous flexible use • Very good alternating bending strength • Low adhesion, abrasion-resistant, nick-resistant, tear-propagation-resistant • Hydrolysis-resistant, microbe-resistant, and rot-resistant • Weatherproof, ozone and UV resistant (normal lighting conditions) • Good ruggedness and salt water resistance • Excellent coolant and lubricant resistance • Resistant to most oils, greases, alcohol-free benzines and kerosene • Silicone free • RoHS compliant |

28.04.2017 – Subject to technical modification

Part-No. 111465

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Construction

| | |
|------------------------------------|------------------------------------|
| Description | SUPERFLEX+ M (C) PUR SERVO SIEMENS |
| Number of conductors/cross-section | (4G16) |
| Jacket material | PUR |
| Jacket color | orange RAL 2003 |
| Outer Ø | 21.2 mm |
| Outer Ø | 0.835 inches |
| Surface | adhesion-free matt |
| Weight | 84.9 kg/100 m |
| Weight | 568.8 Lbs/Mft |
| Cu-Index | 72 kg/100 m |
| Cu-Index | 476 Lbs/Mft |

Element 1

| | |
|----------------------------|--|
| Element construction | (4G16) |
| Conductor | CU-wire bare |
| Conductor category | IEC 60228, Class 6 Superfinely stranded DIN VDE 0295 class 6 |
| Conductor marking | black with white print U/L1/C/L+ V/L2 W/L3/D/L green/yellow |
| Conductor marking standard | DIN EN 50334 |
| Conductor insulation | Special TPE |

overall construction

| | |
|-------------------|--|
| Overall stranding | Conductors twisted without mechanical stress |
| Overall wrapping | Non-woven material |
| Overall shield | Braid shield Tinned copper wires optical cover approx. 85% |

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SYSTEMATIC TECHNOLOGY

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| | |
|------------------------|---|
| Jacket characteristics | Flame-retardant grease-resistant petrol-resistant (alcohol-free) kerosene-resistant Silicone-free Halogen free |
|------------------------|---|

Technical data

| | |
|---------------------------------|---------------------------|
| Rated voltage U ₀ /U | 600/1000 V |
| Rated voltage UL | 1000 V |
| Test voltage type | AC 4000 V |
| Temperature range moving | -25 °C ... +80 °C |
| Temperature range fixed | -40 °C ... +80 °C |
| Minimum bending radius moving | 7.5×D ≤16 mm ² |
| Minimum bending radius fixed | 5×D |
| Bending cycles | ≥5 Mio |
| Travel distance | ≤50 m |
| Speed | 25 m/s |
| Acceleration | 50 m/s ² |

Element 1

| | |
|-----------------------------------|-----------|
| Element construction | (4G16) |
| Insulation resistance at 20°C | 500 MΩ×km |
| Operating capacitance Ader-Ader | 140 pF/m |
| Operating capacitance wire-shield | 245 pF/m |

Approvals/Standards

| | |
|-------------------------------|---|
| Approvals | cURus |
| UL style | AWM 21223 |
| Conformity | CE RoHS REACH |
| Burning behavior according to | IEC 60332-1 DIN EN 60332-1-2 VDE 0482 322-1-2 UL 1581 Part 1080 VW-1 UL FT1 |
| Halogen free according to | DIN EN 60754-1 IEC 60754-1 |

General

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Note

CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU

Symbols



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